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About Us

NPCS is a well-known technical consultancy that focuses on Project Reports Compilation, and we have been following a tight system and procedure to assure only top quality in accordance with our clients' expectations in this rapidly increasing and changing market. We've created the list of the top projects to start your own business startups.

EDITOR:
AJAY KUMAR GUPTA
D.M.S, M.B.A.
Entrepreneurship Management

ASSOCIATE EDITOR :
P. K. TRIPATHI
UDANT GUPTA

NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001:2015 CERTIFIED COMPANY 106 E, Kamla Nagar, Delhi–110 007 (India).

Tel.: 91-11-23843955 91-11-23845886 Mob.: +91-9097075054 +91-8800733955

E-mail: info@niir.org npcs.india@gmail.com

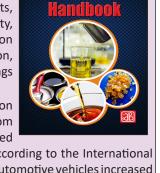
Website : www.niir.org www.entrepreneurindia.co

Alkyd Resins Technology Handbook

Alkyd resin is a low molecular weight Ester, formed when polymeric alcohols react with mono- or polymeric acids. An alkyd is a polyester modified by the addition of fatty acids and other components. Alkyds are derived from polyols and a dicarboxylic acid or carboxylic acid anhydride. The inclusion of the fatty acid confers a tendency to form a flexible coating.

Alkyd resins are versatile synthetic polymers widely used in paints, coatings, varnishes, and inks due to their excellent adhesive, durability, and drying properties. This handbook provides guidance on the production of alkyd resins, right from raw materials to the final product formulation, making it an indispensable resource for those in the chemical and coatings industries.

The global alkyd resin market size was estimated at USD 4.79 billion and is expected to grow at a CAGR of 4.2%. Increasing demand from paints & coatings in automobile and architecture industry is anticipated



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to significantly drive the market growth during the forecast period. According to the International Organization of Motor Vehicle Manufacturers, the global production of automotive vehicles increased by 10% reaching 93.5 million units. In the automotive sector, these resins are highly valued for their durability, excellent gloss retention, and strong adhesion properties. As automobile manufacturers seek high-quality coatings that can withstand harsh environmental conditions and provide a sleek finish, alkyd resins offer an effective solution. This increasing adoption in automotive coatings is anticipated to contribute significantly to market growth.

This book contains in-depth information about alkyd resin, covering Alkyd resins production from bio-based resources, formulation, Importance, The basic chemistry of unsaturated polyesters, Factors affecting alkyd production, Monitoring the alkyd reactions, Alkyd calculations, Alkyd formulations, Practical alkyd formulations, Assessment of the performance of single and multicoat red iron oxide-alkyd paint systems, Styrenated alkyd resins based on maleopimaric acid, Mechanical properties of alkyds resin varnish, Modification of alkyds, Copolymerization of alkyd silicons for coatings, Styrene copolymers in alkyd resins, Blends of polystyrene glycol and alkyds in surface coatings, Mechanical properties of modified alkyd resins, Polyblends of polystyrene glycol and alkyd in surface coatings, Calculation of alkyd properties, Alkyd nomograms, Gas chromatographic analysis of the carboxylic acid components of alkyd resins, Methods of analysis of alkyd resins. The Manufacturing Process, Machinery Equipment Details, and Photographs with Suppliers Contact Details are also given.

The Alkyd Resins Technology Handbook is a valuable resource for professionals, manufacturers, researchers, and entrepreneurs interested in understanding the fundamentals and advanced techniques involved in alkyd resin production. This book provides comprehensive insights into stage of alkyd resin manufacturing, from chemistry and formulation to performance assessment, with practical advice for startups in the field.

This handbook bridges the gap between academic knowledge and industrial practices, helping professionals design efficient manufacturing processes and develop new formulations. Its explanations make it a practical guide for both newcomers and seasoned practitioners looking to expand their knowledge in the resin industry.

Start Investing in Fastest Growing Industries

ashew nuts are one of the most popular and sought-after nuts globally, known for their rich taste, nutritional benefits, and versatile culinary uses. The cashew industry has grown significantly over the years, with increasing demand from both domestic and international markets. This surge presents an exciting opportunity for entrepreneurs looking to tap into

a profitable business venture—cashew nut processing combined with flavored cashew

Why Startups Should Choose Cashew Processing and Flavored Cashew Manufacturing

For startups and entrepreneurs, investing in the cashew nut processing industry presents several advantages. Firstly, the industry is highly scalable, allowing businesses to start small and expand gradually. Secondly, the growing global health consciousness has driven consumers to opt for nutritious snack options, and cashews fit perfectly into this trend. By adding value through flavored varieties, businesses can cater to a wide array

of consumer preferences, thereby maximizing profit margins.

The increasing demand for healthy snacks, combined with the popularity of premium nuts like cashews, substantial creates opportunity market for entrepreneurs. Moreover. India is one of the largest producers and exporters of cashews, making it an ideal location to set up a cashew

Cashew Nut Processing with Flavoured Cashew Manufacturing: A Profitable Venture for Startups

processing business.

Market Overview: Size, Share, and Trends

The global cashew market has been experiencing consistent growth over the past few years, with a projected compound annual growth rate (CAGR) of around 5% from 2023 to 2030. The Indian cashew processing industry holds a significant share in this global market, with India being one of the top exporters to countries like the USA, UAE, and the European Union. The flavored cashew segment is gaining traction due to consumers' growing inclination towards healthier yet flavorful snack options.

demand for flavored cashews, such as roasted, salted. honey-coated, spiced varieties, has opened new avenues for businesses. Flavored cashews cater to both the domestic market, where snacking habits are rapidly changing, and the international market, where premium nuts are in high demand. Entrepreneurs who invest in this niche can leverage the trend by offering innovative flavors and high-quality products.

Reasons to Invest in Cashew Processing and **Flavored Cashew Manufacturing**

- 1. High Profit Margins: The value-added products like flavored cashews allow businesses to command higher prices, resulting in improved profit margins compared to plain cashew nuts.
- 2. Growing Export Potential: India's strategic position as a

leading cashew exporter, coupled with government incentives, provides ample opportunities for exporting processed and flavored cashews to international markets.

- 3. Health-Conscious Consumers: As people become more health-conscious, there is a shift toward nutritious snacks. Cashews, being rich in vitamins, minerals, and healthy fats, are an ideal choice for this market segment.
- 4. Lower Competition in Flavored Cashew Segment: While raw and plain roasted cashew markets are saturated, the flavored cashew market remains relatively untapped, especially in niche flavors.
- 5. Easy Availability of Raw Materials: India has an abundant supply of raw cashew nuts, reducing raw material procurement costs and ensuring consistent production.

Market Potential and Export Opportunities

India exports over 80% of its processed cashew nuts to international markets. The demand for flavored cashews is particularly strong in countries like the USA, Canada, UAE, and European nations, where consumers are willing to pay a premium for unique, healthy snacks. The global export market for cashew nuts is projected to reach over \$10 billion by 2030, with flavored cashews representing a significant share.

PROJECT COST ESTIMATE

CAPACITY:

White Cashew Nut : 200 Kgs Per Day Roasted Cashew Nut : 200 Kgs Per Day : 200 Kgs Per Day Fried Cashew Nut Flavoured Cashew Nut: 200 Kgs Per Day Coated Cashew Nut : 200 Kgs Per Day Broken Cashew : 100 Kgs Per Day

(By Product) Plant & Machinery Cost of Project Rate of Return

Break Even Point

: ₹ **2** Crore : 29%

: ₹ 77 Lakhs

Silica from Rice

n the concrete business. rice husk ash silica is a viable alternative to conventional particularly in areas where sand is scarce. Silica is extracted from

ing high-temperature calcination and carbonization procedures to produce silicon dioxide, which can be used to concrete mixes to improve qualities like as strength, density, air entrainment, and freeze-thaw resistance.

1. Adhesive: Silica is used as a reinforcing and thickening agent, as well as to improve bond strength. When a liquid adhesive comes into touch with a solid surface, the dispersed silica particles

within it solidify quickly. Adhesive based on natural and synthetic rubber.

- 2. Chappals: Silica is utilised in shoe soles because of its wear and tear durability, non-scuffing properties, and the ability to create compounds with light colours or even transparent materials.
 - 3. Conveyor Belt & Transmission Belt: Due
- to its small particle size and complex aggregate structure, silica is employed to improve tear strength.
- 4. PVC Sheets: Silica improves pigment dispersion, acts as a separating agent and an absorbent to increase flow, and gives the compound a dry
- 5. Railway Pads: Silica is utilised in railway pads for the following reasons:

PROJECT COST ESTIMATE CAPACITY:

Silica : 5.80 MT Per Day Activated Carbon : 0.64 MT Per Day

(by product) Sodium Carbonate: 0.96 MT Per Day (by product)

Plant & Machinery : ₹ 745 Lakhs Cost of Project : ₹ 1121 Lakhs Rate of Return : 27%

Break Even Point : 45%

7. Rubber Products and Rubber Hoses: In industrial rubber, silica gives higher strength and durability, as well as improved heat resistance and tear strength, to industrial Rubber Belts and Rubber

8. Silicon Tubes: Silicone rubber is utilised in a variety of applications where its distinct qualities

are advantageous. Many of these characteristics are heavily influenced by the type and amount of filler used in the compound.

In 2019-20, the India silica market was worth USD 46.8 million. It is expected to grow at a CAGR of 6.5 percent in the next years. Because of its anticaking and super absorption qualities, strong product demand in the food industry has helped the market gain traction in recent

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he construction industry has been evolving rapidly, driven by the need for stronger, more durable, and corrosionresistant building materials. One such innovative material is Glass Fibre Reinforced Polymer (GFRP) rebar, which is transforming how construction projects executed worldwide. For startups and entrepreneurs looking to enter a high-growth, future-proof industry, GFRP rebar manufacturing presents a golden opportunity. Here's why this business idea is worth considering and how it can be a highly profitable

Understanding GFRP Rebar and Its Benefits

GFRP rebars are a type of composite material made from glass fibres and polymer resins. These rebars are used to reinforce concrete structures, providing enhanced strength, corrosion resistance, and longevity compared to traditional steel rebars. Given that steel rebars are prone to rust, particularly in harsh environments like coastal areas, GFRP rebars have gained popularity due to their noncorrosive properties.

Some key advantages of GFRP rebars include:

- 1. Corrosion Resistance: Unlike steel, GFRP rebars do not rust, making them ideal for infrastructure exposed to moisture or salt.
- Lightweight: GFRP rebars are significantly lighter than steel, reducing transportation and handling costs
- 3. High Tensile Strength: These rebars offer greater tensile strength, enhancing the structural integrity of buildings.
- **4. Long Lifespan:** GFRP-reinforced structures require less maintenance, lowering long-term costs

Why Entrepreneurs Should Invest in GFRP Rebar Manufacturing

Investing in GFRP rebar manufacturing can be a game-changer for startups for several reasons:

1. Growing Market Demand: The construction

Glass Fibre Reinforced Polymer (GFRP) Rebar Manufacturing:

A Lucrative Business
Opportunity for Startups

- industry
 i s rapidly shifting
 towards sustainable and durable materials. The
 demand for GFRP rebars is growing, especially
 in infrastructure projects like bridges, highways,
 and marine structures, where corrosion
 resistance is crucial.
- 2. Export Potential: The global market for GFRP rebars is expanding, driven by increasing construction activities in emerging economies. Countries like the USA, Canada, and the Middle East are leading importers of GFRP rebars. This opens up vast export opportunities for manufacturers in India.
- 3. High Return on Investment (ROI): GFRP rebar manufacturing is a capital-intensive business but offers a high ROI due to strong demand and premium pricing. Entrepreneurs can achieve profitability quickly with the right marketing strategies and distribution channels.
- Sustainability Trends: As the world focuses on sustainable construction, GFRP rebars are

gaining recognition for their eco-friendly properties. They do not corrode, reducing waste and ensuring the longevity of structures. This aligns with global sustainability goals, making it an attractive product for government-funded

Floral Foam

Production Business

projects.

Market Size, Share, and Trends

The GFRP rebar market has been witnessing significant growth. As of 2023, the global market was valued at approximately USD 1.5 billion and is expected to grow at a compound annual growth rate (CAGR) of over 10% in the coming years. Key factors driving this growth clude:

- Increasing infrastructure investments, especially in Asia-Pacific and Middle Eastern countries.
- A rising focus on sustainability in construction, leading to the adoption of non-corrosive, lightweight materials.
- Government initiatives to promote advanced construction materials to extend the lifespan of infrastructure projects.

India, being one of the fastest-growing construction markets globally, presents an untapped potential for GFRP rebar manufacturing. The demand for non-corrosive rebars is particularly high in coastal states, where traditional steel rebars deteriorate quickly due to high humidity and salt content in the air.

Market Overview and Export Potential

The GFRP rebar market is poised for significant growth in the coming years, driven by increasing infrastructure projects, especially in developing countries. As the world focuses on sustainable development, GFRP rebars are becoming the material of choice for projects where longevity and maintenance-free structures are critical.

India has a competitive advantage in manufacturing GFRP rebars due to the availability of skilled labor, raw materials, and a growing construction industry. Indian manufacturers can tap into the lucrative export markets in the Middle East, Africa, and Southeast Asia, where infrastructure development is a top priority.

PROJECT COST ESTIMATE CAPACITY

Glass Fibre Reinforced : 30 MT Per Day Polymer (GFRP) Bar

(Size 4mm to 20 mm)

Plant & Machinery : ₹ 3 Crore

Cost of Project : ₹ 14 Crore

Rate of Return : 31%

Break Even Point : 49%

loral foam is a porous, thick, yet lightweight material that can be cut into nearly any shape. It holds its shape when wet and provides both water and support for cut flower arrangements. Floral foam's density allows it to hold a lot of water, allowing flowers to

last longer. It also increases the stability of the flower stems, allowing you more control over your floral arrangements. The first appearance of floral foam was as a green block. It's currently available in a number of colours and shapes, such as spheres, crosses, and wreaths, to meet a wide range of arranging needs.

In India, floriculture is considered a high-growth industry. Commercial floriculture is becoming increasingly important in terms of export. The liberalisation of industrial and trade policies made it possible for cut flower export production to expand. The Indian floriculture market was worth INR 157

billion in 2018. From 2019 to 2024, the market is estimated to grow at a CAGR of 20.1 percent, reaching INR 472 billion. Floriculture, sometimes known as flower farming, is the practise of cultivating flowering and appealing plants.

As a result of globalisation, floriculture has become one of the most important commercial activities in Indian

agriculture. The Indian floriculture industry includes the florist trade, nursery plants, bulb and seed production, as well as the fabrication of micro propagation material and the extraction of essential oils from flowers. The industry has risen at a compound annual growth rate of 25% during the last decade (CAGR).

PROJECT COST ESTIMATE

Capacity : 24000 Pcs. Per Day
Plant & Machinery : ₹ 74 Lakhs
Cost of Project : ₹ 321 Lakhs
Rate of Return : 30%
Break Even Point : 50%

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Biodegradable Plastic Bags from Corn Starch Granules

A Sustainable Business Opportunity for Startups

he global focus on sustainability and reducing plastic waste has created significant opportunities for entrepreneurs looking to invest in ecofriendly solutions. One such promising business idea is the manufacturing of biodegradable plastic bags made from corn starch granules. As the world seeks alternatives to traditional plastics, corn starch-based biodegradable bags are becoming increasingly popular due to their environmental benefits. This business presents an excellent opportunity for startups aiming to tap into a growing market while contributing to a greener planet.

Why Startups Should Choose This Business Idea

- 1. Rising Demand for Sustainable Alternatives:
 With increasing awareness about the environmental impact of conventional plastics, both consumers and governments are pushing for greener options. Biodegradable plastic bags made from corn starch provide an ideal solution as they decompose naturally and do not release harmful toxins. This aligns perfectly with global trends towards sustainability.
- 2. Favorable Government Policies: Governments worldwide are enforcing bans and restrictions on single-use plastics. For instance, India, the

European Union, and several states in the United States have implemented regulations to reduce plastic waste. These policies are driving the demand for

PROJECT COST ESTIMATE

CAPACITY:

Biodegradable Plastic Bags: 2 MT Per Day

(Per Bag 25 gms Size

Plant & Machinery : ₹ 4.3 Crore
Cost of Project : ₹ 11.8 Crore

Rate of Return : 28%
Break Even Point : 51%

biodegradable alternatives, making this an opportune time for startups to enter the market.

3. Growing Market Potential: According to industry reports, the global biodegradable plastic market was valued at approximately \$7 billion in 2023 and is expected to grow at a compound annual growth rate (CAGR) of over 15% in the coming years. The demand for corn starch-based biodegradable bags is projected to increase significantly due to their eco-friendly properties, making this industry a lucrative option for new entrepreneurs.

Market Size, Share, and Trends

The biodegradable plastic industry is expanding rapidly, driven by consumer demand for sustainable packaging solutions. North America, Europe, and Asia-Pacific are the major markets for biodegradable plastics, with Asia-Pacific expected to witness the highest growth due to increasing environmental regulations and consumer preferences.

- Market Size: In 2023, the global biodegradable plastics market was valued at around \$7 billion.
 The market is expected to reach \$15 billion by 2028, driven by rising demand for sustainable products and increasing regulatory support.
 - Trends: Key trends in this industry include the adoption of bioplastics in food packaging, agriculture, and retail industries. Innovations in biodegradable polymers, such as using corn starch, are also becoming more prevalent due to their cost-effectiveness and lower environmental impact.

• Export Potential: Biodegradable plastic bags have significant export potential, especially in regions like Europe and North America, where stringent environmental regulations are in place. Exporting biodegradable bags can open doors to lucrative international markets, providing entrepreneurs with an additional revenue tream.

Reasons for Entrepreneurs to Invest in This Manufacturing Industry

- 1. Low Competition and High Growth Potential:
 Although the market for biodegradable plastic bags is growing, it is still in its early stages in many regions, offering a relatively low-competition environment for new players. This provides startups with a unique opportunity to establish their brand and capture market share early.
- 2. Scalability: The manufacturing of biodegradable plastic bags can start on a small scale and be expanded as demand grows. This scalability makes it an attractive option for entrepreneurs who want to test the waters before making a significant investment.
- 3. Eco-Friendly Brand Image: By investing in the production of biodegradable bags, businesses can position themselves as eco-friendly and socially responsible. This not only attracts environmentally conscious consumers but also opens doors to partnerships with companies that prioritize sustainability.

Investment and Profitability

Starting a biodegradable plastic bag manufacturing unit requires an initial investment, including machinery, raw materials, and setup costs. However, due to the high demand and growing market potential, the return on investment (ROI) can be significant. Entrepreneurs can achieve profitability within 2-3 years, depending on the scale of production and market penetration.

lass Sheet & Float Glass is a type of flat glass that is made by melting sand and soda ash, which is then cast onto molten tin. The class is then formed into sheets

and float-cooled on molten metal. Float glass has a smooth, uniform surface, and is used to make products such as windows, doors, mirrors, and table tops. Glass Sheet & Float Glass is a form of plate glass made from silica sand, soda ash, and limestone, which is then heated to extremely high temperatures and then cooled rapidly to create a flat glass surface.

Uses and Applications

Glass sheets and float glass are versatile materials that can be used in a variety of ways. They are commonly used for windows, doors, skylights, and other architectural features in homes and commercial buildings.

Setup Plant of Glass Sheet & Float Glass

Scope for Startups in the Glass Sheet & Float Glass Industry

The glass sheet and float glass industry has seen significant growth in recent years, and this trend is expected to continue in the coming years. This creates an excellent opportunity for entrepreneurs to get involved in the glass sheet and float glass industry and take advantage of the growing demand.

Global Market Outlook

The global market size of glass sheet and float glass is estimated to reach \$9 billion by 2027, with an expected CAGR of 8.5% over the forecast period.

The global market for glass sheets and float glass is booming.

Conclusion

There are plenty of opportunities for Startups to become involved in the glass sheet and float glass industry. With the right strategy, Startups can capitalize on the growing demand for these products and services and establish a strong presence in the industry.

PROJECT COST ESTIMATE

CAPACITY:

Float Glass 8mm : 1,500,000 Sq.mt. Per Annum Sheet Glass 4mm : 3,000,000 Sq.mt. Per Annum

Plant & Machinery : ₹ 261 Crores Cost of Project : ₹ 346 Crores Rate of Return : 14 % Break Even Point : 43 %

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he demand for iodine-based products has been steadily increasing due to their extensive applications in various industries, including pharmaceuticals, chemicals, agriculture, and healthcare. Among these, iodine granules derived from iodine powder are gaining significant traction in the global market. This presents a lucrative opportunity for entrepreneurs looking to establish a manufacturing unit. Investing in the production of iodine granules is a promising venture that offers excellent returns and the potential for growth. Let's explore why this business idea is ideal for startups, along with insights into market trends, the manufacturing process, and required machinery.

Why Startups Should Consider Iodine Granules Manufacturing

1. Growing Market Demand

The global market for iodine products is projected to grow at a steady rate, driven by its increased usage in pharmaceuticals, water treatment, animal feed, and nutrition. The demand for iodine granules specifically is on the rise due to their superior stability, ease of handling, and versatility compared to powdered iodine. These granules are often used in formulations where precise dosing and controlled release of iodine are required, such as in supplements and feed additives.

2. Potential for Export and Global Expansion

lodine is a critical raw material with limited natural sources, making it a valuable export commodity. Countries like Japan, Chile, and the USA are major producers, but there is still room for new players, especially in developing regions. By establishing a manufacturing unit, startups can tap into both domestic and international markets, thereby enhancing their profit margins. Additionally, with the global focus on health and wellness, the export potential of iodine-based products, especially in pharmaceutical and agricultural sectors, is

Iodine Granules from Iodine Powder

A Profitable Business **Opportunity for Startups**

immense.

3. Low Competition and High-Profit Margins

Unlike saturated markets like consumer electronics or clothing, the iodine granules industry remains relatively niche with limited competition. This creates an excellent opportunity for startups to enter the market with innovative solutions, build a strong customer base, and generate higher profit margins. Entrepreneurs who can establish themselves early in this sector can enjoy a significant competitive advantage.

Market Size, Share, Trends, and Analysis

The iodine market is valued at around USD 1.2 billion globally and is expected to grow at a compound annual growth rate (CAGR) of 4.5% in the coming years. The rising demand for iodine in the pharmaceutical industry, especially for manufacturing antiseptics, disinfectants, and dietary supplements, is one of the key drivers behind this growth. Additionally, the agricultural sector's increased adoption of iodine granules for livestock nutrition and crop protection has further boosted demand.

In terms of regional markets, Asia-Pacific leads the way due to its robust pharmaceutical and agricultural sectors. China and India, in particular, are witnessing strong growth, driven by rising healthcare expenditure and awareness about iodine deficiencies. North America and Europe also hold significant market shares, fueled by the pharmaceutical industry's advancements and stringent quality standards.

Key Reasons for Entrepreneurs to Invest in **lodine Granules Manufacturing**

1. Steady Demand Across Multiple Industries

lodine granules have a broad range of applications, ensuring steady demand. This includes pharmaceutical products, animal feed additives, water purification, and even in the production of certain chemicals. With industries increasingly focusing on health and sustainability, iodine granules are well-positioned to be a soughtafter product.

2. Scalable and Cost-Effective Manufacturing **Process**

Setting up a manufacturing unit for iodine granules does not require exorbitant investment, making it an attractive option for startups. The process involves straightforward technology and machinery, which can be scaled up as demand increases. The initial investment can yield high returns within a short period, making it a financially viable option for new entrepreneurs.

3. Government Support and Incentives

Many countries, including India, offer incentives for setting up chemical and pharmaceutical manufacturing units, especially those that align with health and agricultural development goals. Startups in this space can benefit from subsidies, tax breaks, and other financial support, further reducing operational costs.

PROJECT COST ESTIMATE

CAPACITY

Project Capacity : 200 MT Per Annum Plant & Machinery: ₹3 Crore Cost of Project : ₹ 6 Crore

Rate of Return : 31% Break Even Point : 76%

scorbic acid. also known as vitamin C, is an essential nutrient that the body does not produce naturally but must obtain from outside sources to stay healthy. Because it

performs so many functions, taking in enough vitamin C every

day can be difficult if you're not aware of what it does and where you can find it. Vitamin C helps your body form collagen, boosts your immune system, helps wounds heal faster and reduces the chance of certain cancers developing by neutralizing free radicals in your body.

Based on grade, the global ascorbic acid market has been segmented into pharmaceutical grade and food grade. Food grade segment is

Manufacturing of **Ascorbic Acid (Powder)** from Sorbitol

expected to register significant revenue growth over the forecast period owing to increasing demand for food and beverages fortified with vitamin C, rising use of ascorbic acid as food additive and acidity regulator, and as a main source of vitamin C in supplements.

Asia Pacific market revenue is expected to expand at a CAGR of 5.5% during the forecast period owing to increasing manufacturing of vitamin C, increasing investment in R&D activities

to develop effective vitamin C supplements. rapidly growing food and beverage industry due to increasing focus on functional foods and rapid urbanization, changing lifestyle and increasing disposable, and growing demand for vitamin C-enriched cosmetic

PROJECT COST ESTIMATE

CAPACITY:

Ascorbic Acid (Powder) : 8.3 MT Per Day Carbon Di-oxide by Product : 11.6 MT Per Day Sodium Hydroxide by Product: 7.7 MT Per Day Plant & Machinery : ₹ 803 Lakhs Cost of Project : ₹ 2444 Lakhs : 29% Rate of Return **Break Even Point** : 48%

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he healthcare industry is rapidly evolving, creating numerous opportunities for entrepreneurs to tap into its various segments. One such high-potential sector is the manufacturing of surgical sutures. Sutures are critical medical devices used in surgeries to close wounds, promote healing, and reduce the risk of infections. As the demand for surgical procedures continues to rise globally, the market for surgical sutures is witnessing significant growth. For startups looking to enter the healthcare industry, investing in a surgical suture manufacturing business presents a lucrative opportunity.

Why Entrepreneurs Should Choose Surgical Suture Manufacturing

The growing demand for surgeries and healthcare services, coupled with advancements in medical technologies, has created a robust market for surgical sutures. Here are key reasons why startups should consider investing in this industry:

- 1. Steady Market Growth: The global surgical suture market is projected to grow at a CAGR of 5.5% between 2023 and 2030, driven by an increasing number of surgeries, especially in orthopedics, cardiovascular, and cosmetic procedures. As a result, the demand for high-quality sutures is on the rise, presenting a stable revenue stream for manufacturers.
- 2. Increasing Healthcare Expenditure: Governments across the world are increasing healthcare budgets, leading to improved hospital infrastructure and a higher volume of surgeries. This surge directly boosts the demand for sutures, making it a profitable sector for new businesses.
- 3. Rising Export Opportunities: Developing countries like India and China are emerging as major suppliers of surgical sutures due to their lower manufacturing costs. Entrepreneurs can leverage this export potential to tap into international markets and gain a competitive edge.
- 4. Regulatory Support for Medical Devices: Many countries are streamlining regulatory frameworks to support the growth of medical

Surgical Suture Manufacturing: A Promising Business Opportunity for Startups

device manufacturing industries. This is particularly beneficial for startups as it reduces the complexities involved in setting up a new business.

5. Sustainable Profit Margins: Surgical sutures are high-value products with consistent demand and relatively stable pricing, allowing manufacturers to achieve sustainable profit margins. Additionally, the low obsolescence rate of sutures makes this business less susceptible to market fluctuations.

Market Overview and Trends

The surgical suture market is broadly divided into two categories: absorbable sutures and non-absorbable sutures. Absorbable sutures, made from materials like polyglycolic acid, polylactic acid, and catgut, dissolve naturally in the body over time. Non-absorbable sutures, typically made from materials like nylon, polyester, and polypropylene, require manual removal post-surgery.

With the increasing focus on minimally invasive surgeries and wound care management, there is a shift towards the adoption of absorbable sutures.

The market is further driven by innovations in suture materials, such as antimicrobial and bioabsorbable sutures, which reduce the risk of infections.

According to industry reports, the surgical suture

market was valued at approximately USD 4.1 billion in 2023 and is expected to surpass USD 6 billion by 2030. Key growth regions include North America, Europe, and the Asia-Pacific, with India and China emerging as significant players due to their cost-effective manufacturing capabilities.

Manufacturing Process of Surgical Sutures

Setting up a surgical suture manufacturing business requires an understanding of the process involved. Below is an overview of the typical steps involved in producing surgical sutures:

- Material Selection: High-quality raw materials such as nylon, polyester, catgut, and polyglycolic acid are selected based on the type of suture to be manufactured.
- Extrusion and Spinning: The chosen raw material is melted and extruded into thin filaments or threads. These threads are then spun to achieve the required diameter and strength.
- Coating: The filaments are coated with a biocompatible material to enhance their performance, reduce tissue drag, and prevent infections.
- 4. Sterilization: Sutures are sterilized using methods like ethylene oxide gas or gamma radiation to eliminate any potential contaminants.
- 5. Packaging: Once sterilized, the sutures are cut to the desired length, attached to needles, and packaged in sterile conditions to ensure they meet international quality standards.

Export Potential

With the rising demand for cost-effective medical supplies globally, there is substantial export potential for surgical sutures. Countries in Africa, Southeast Asia, and Latin America are particularly lucrative

markets due to their increasing healthcare expenditures and need for affordable surgical supplies. Indian manufacturers, in particular, have the advantage of producing high-quality sutures at competitive prices, making exports a viable and profitable option.

PROJECT COST ESTIMATE CAPACITY Project Capacity : 200 Boxes Per Day

Plant & Machinery : ₹ 70 Lakhs

Cost of Project : ₹ 2.5 Crore

Rate of Return : 21%

Break Even Point : 55%

otato Powder, Starch & Flakes are a range of products derived from the tuber of the potato plant. Potato powder is created when

potatoes are peeled, dried and then ground into a fine powder. The flakes are made when potato starch is heated and dried, forming thin flakes. The process of making potato starch is not complicated and can be done with minimal equipment.

Uses and Application of Potato Powder, Starch & Flakes

Potato powder, starch and flakes are used in a variety of applications across industries. In food production, potato powder is often used as an ingredient in soups and sauces, or to thicken and stabilize products like yogurt, ice cream and

Start Production of Potato Powder, Starch & Flakes

cheese. It can also be used to enhance the flavor and texture of baked goods, such as cookies and cakes. Flakes made from potatoes are becoming increasingly popular in snack foods like chips and crackers, as well as in batters for fried foods.

Indian Market Outlook

The demand for potato powder, starch and flakes has been rising steadily in India due to the increasing awareness about its health benefits. Potato powder, starch and flakes are rich in dietary fibre, vitamins, minerals and antioxidants which make them a healthy and nutritious choice.

Conclusion

Overall, the versatility of potato powder, starch and flakes makes them useful in a variety of industries, including food production, animal feed production,

PROJECT COST ESTIMATE

CAPACITY:

Potato Powder : 500 Kgs Per Day
Potato Starch : 500 Kgs Per Day
Potato Flakes : 500 Kgs Per Day
Plant & Machinery : ₹ 40 Lakhs
Cost of Project : ₹ 241 Lakhs
Rate of Return : 27 %
Break Even Point : 58 %

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact:

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he manufacturing of Soda Ash (Sodium Carbonate) and Calcium Chloride as a by-product presents a lucrative opportunity for startups and entrepreneurs seeking to venture into the chemical industry. This business idea is not only commercially viable but also holds substantial

growth potential, making it a strategic investment for new businesses.

Why Invest in Soda Ash & Calcium Chloride Manufacturing?

- 1. Increasing Demand: The demand for Soda Ash is rising globally due to its extensive applications in industries such as glass, detergents, chemicals, and paper. The product is also essential in the production of soaps, textiles, and dyes. Similarly, Calcium Chloride, a by-product, is widely used in de-icing, dust control, water treatment, and food preservation. Given the versatility and essential nature of these chemicals, their market demand is expected to grow steadily.
- 2. Strong Market Size & Growth Potential: The global Soda Ash market was valued at approximately \$15 billion in 2023, and it is expected to grow at a CAGR of over 4% from 2024 to 2030. The growth is driven by increasing urbanization, industrial activities, and the rising use of glass in automotive and construction sectors. Meanwhile, the Calcium Chloride market is projected to grow at a CAGR of around 5.5% due to its rising applications in food, agriculture, and industrial processes.
- 3. Export Potential: India is one of the leading producers of Soda Ash, and there is significant export potential, especially to countries in Africa, the Middle East, and Asia-Pacific regions. Startups can capitalize on India's strategic location, which provides cost advantages in exporting chemicals to these regions.

Soda Ash & Calcium Chloride (By-Product) Manufacturing:

A Promising Business Venture for Startups

- Compared to other chemical manufacturing industries, the Soda Ash and Calcium Chloride sector faces moderate competition. This makes it easier for new entrants to establish a foothold and scale their operations. Moreover, efficient manufacturing processes, entrepreneurs can achieve high-profit margins, given the relatively lower raw material costs.
- 5. Sustainable and Environmentally Friendly: Manufacturing Soda Ash and Calcium Chloride using efficient methods can reduce environmental impact. Many companies are shifting towards sustainable production practices to meet stringent regulations and consumer demand for greener products, creating additional opportunities for startups to leverage environmentally friendly technologies.

• Glass Manufacturing: Over 50% of Soda

4. Low Competition & High Profit Margins:

Market Trends and Analysis

Ash produced globally is consumed by the

is increasing, thereby boosting the Soda Ash market. **Detergents** Chemicals: Soda Ash

glass industry.

the automotive

growing rapidly, demand for flat glass

construction

and

sectors

- is a key component in producing detergents and household cleaning agents, which are essential commodities worldwide. The growth in population and urbanization in developing countries further drives demand.
- Water Treatment: Calcium Chloride is increasingly used in water treatment processes due to its ability to remove impurities and enhance water quality. As the global focus on clean water intensifies, the demand for Calcium Chloride is expected to surge.
- De-Icing & Dust Control: The use of Calcium Chloride for de-icing roads and controlling dust on unpaved roads is gaining popularity, especially in cold regions. This application is a significant driver of demand in countries with harsh winters.

Export Opportunities & Market Overview

India holds a strategic advantage in manufacturing and exporting Soda Ash and Calcium Chloride due to its abundant raw materials, skilled workforce, and cost-effective production capabilities. The country exports a significant portion of its production to regions like Africa, the Middle East, and Southeast Asia.

Moreover, with increasing global demand and limited competition, startups can position themselves as key players in the international market. By investing in technology and sustainable practices, businesses can enhance their competitiveness and expand their market reach.

PROJECT COST ESTIMATE

CAPACITY:

Break Even Point

Soda Ash (Na,CO,) - Powder : 1333 MT Per Day By Product Cálcium : 1396 MT Per Day

Chloride (CaCl₂) - Flakes

Plant & Machinery : ₹ 1185 Crore **Cost of Project** : ₹ 1403 Crore Rate of Return : 25%

Start N.C. Thinner Manufacturing Plant

itrocellulose thinning is a process where nitrocellulose (NC) is used to reduce the viscosity and improve the flow of liquid paints and coatings. Nitrocellulose is a highly flammable material which is made from wood pulp, cotton, or other cellulosic materials. It is used in a variety of industries, from automotive paints to adhesives and from solvents to printing inks.

Applications and Benefit of Nitrocellulose **Thinners**

Nitrocellulose thinners are also used in automotive and industrial applications, such as engine degreasing and car body refinishing. They

are also often used in arts and crafts to make glues and inks.

Indian Market Estimation

: 53%

Nitrocellulose has been a major part of the Indian market for many years. It is used in a wide range of industries and applications.

including automotive, electronics, textiles, and chemicals. Nitrocellulose is known for its excellent properties such as flexibility, durability, and good electrical insulation.

Global Market Estimation

The global nitrocellulose market size was valued at USD 789.7 million in 2022 and is anticipated to grow at a compound annual growth rate (CAGR) of 4.9% from 2023 to 2030. Asia Pacific dominated the industry in 2022 and accounted for the maximum share of more than 45.55% of the overall revenue.

Conclusion

The nitrocellulose thinning industry has grown dramatically in recent years and is expected to continue growing in the near future. It has become an essential part of the industrial world due to its ability to provide high-quality, efficient, and low-cost solutions. It can be used for a variety of purposes, including coating materials and improving paint quality.

PROJECT COST ESTIMATE

CAPACITY:

Ordinary Thinner : 2,000 Ltrs Per Day Medium Grade Thinner : 2,000 Ltrs Per Day High Grade Thinner : 1,000 Ltrs Per Day Plant & Machinery : ₹ 36 Lakhs **Cost of Project** : ₹150 Lakhs Rate of Return : 29 % **Break Even Point** : 70 %

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact:

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Most Growing Industries to Start a New Business

ingle-use disposable plastic syringes are specifically intended to prevent the possibility of cross-contamination between patients. These syringes are made of a lightweight, easy-to-use plastic barrel and come with a precision-fit plunger and a hypodermic needle. Each syringe is sanitized and separately packaged for single use, ensuring that it is free of contamination until it is needed. Once used, it is disposed of properly, eliminating the possibility of infection spreading through the syringe. Disposable plastic syringes are more than simply a useful tool; they are an essential component of the machinery that keeps patients safe and well-cared for.

The Rising Demand in the Health Sector

Over the past several years, the healthcare industry has undergone numerous transformations, and disposable plastic syringes have been at the heart of this change. The one-time-use design of these syringes greatly minimizes the potential for transmission of infections, a feature that is incredibly attractive in the healthcare field where patient safety is paramount. With their capability to safeguard patients while delivering necessary medical care, disposable plastic syringes have become an irreplaceable part of the health sector. Their popularity continues to rise, not just due to the critical role they play in infection control, but also because of their versatility and adaptability to various medical procedures.

Advantages of Disposable Plastic Syringes

Start Manufacturing of Disposable Plastic Syringes

Disposable

plastic syringes offer several advantages in medical and healthcare settings:

- Sterility
- · Cost-effectiveness
- Convenience
- · Reduced risk of cross-contamination
- Accurate dosing
- Variety of sizes and types
- · Safety features
- Single-use design
- Accessibility
- · Compliance with regulations

Global Market Outlook

The global disposable syringes market size was estimated at USD 14.18 billion in 2022 and is anticipated to grow at a compound annual growth rate

(CAGR) of 6.2% from 2023 to 2030. The market is primarily driven by factors, such as an increase in technological advancements and a rise in the incidence of chronic diseases. Moreover, the increasing adoption of safety syringes and the rising prevalence of diabetes drive market growth. The rising cases of chronic diseases and an increasing number of vaccinations that make extensive use of syringes, such as single-use and disposable syringes, are enhancing global market growth.

Conclusion

The disposable plastic syringes market is a lucrative one that is expected to flourish due to its inherent alignment with healthcare trends and technological advancements. As this potent business venture continues to thrive, it simultaneously contributes to better patient care - a win-win scenario for all stakeholders involved.

PROJECT COST ESTIMATE

CAPACITY:

Disposable Plastic Syringes 1 ml Size) : 25,000 Nos Per Day
Disposable Plastic Syringes 2 ml Size) : 25,000 Nos Per Day
Disposable Plastic Syringes 3 ml Size) : 25,000 Nos Per Day
Disposable Plastic Syringes 5 ml Size) : 25,000 Nos Per Day
Disposable Plastic Syringes 10 ml Size) : 25,000 Nos Per Day
Plant & Machinery : ₹ 245 Lakhs

Cost of Project : ₹ 1811 Lakhs
Rate of Return : 29%
Break Even Point : 37%

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact:

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SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT EACH DETAILED PROJECT REPORT (BUSINESS PLAN) CONTA



BEGINNING: Project Introduction, Brief History of the Product, Properties, BIS (Bureau of Indian Standard) Specifications & Requirements, Uses & Applications.

MARKET SURVEY: Present Market Position, Expected Future Demand, Statistics of Imports & Exports, Export Prospect, Names and Addresses of Existing Units (Present Manufactures).

PLANT & MACHINERY: List of Plant & Machineries, Miscellaneous Items and Accessories, Instruments, Laboratory Equipments and Accessories, Plant Location, Electrification, Electric Load and Water, Maintenance, Suppliers/Manufacturers of Plant and Machineries.

RAW MATERIAL: List of Raw Materials, Properties of Raw Materials, Availability of Raw Materials, Required Quality of Raw Materials, Cost/Rates of Raw Materials.

MANUFACTURING TECHNIQUES: Formulae DetailedProcess of Manufacture. Flow Sheet Diagram.

PERSONNEL REQUIREMENTS: Requirement of Staff & Labour, Personnel Management, Skilled & Unskilled Labour.

LAND & BUILDING: Requirement of Land Area, Rates of the Land, Built up Area, Construction Schedule, Plant Layout.

FINANCIAL ASPECTS: Cost of Raw Materials, Cost of Land & Building, Cost of Plant & Machineries, Fixed Capital Investment, Working Capital, Project Cost, Capital Formation, Cost of Production, Profitability Analysis, Break Even Point, Cash Flow Statement for 5 to 10 Years, Depreciation Chart, Conclusion, Projected Balance Sheet, Land Man Ratio.

- Prepared by highly qualified and experienced consultants and Market Research and Analyst Supported by a panel of experts and computerised data bank.
- Data provided are reliable and upto date collected from suppliers/ manufacturers, plant already commissioned in India.
- NPCS Reports are very economical and immediately available on demand where as commissioned Feasibility Studies are time consuming and costly.

FOR ASSESSING MARKET POTENTIAL, INVESTMENT **DECISION MAKING CORPORATE DIVERSIFICATION PLANNING ETC.**

NPCS Engineers and Consultants have prepared Market Survey Cum Detailed **Techno Economic Feasibility Report on** the following products which are most viable and profitable.

Business Ideas: 2.5–3 Crore

(Plant and Machinery):

Selected Project Profiles for Entrepreneurs, Startups



- » 3-chloropivaloyl Chloride
- » 4 Star Hotel
- » Nicotine from Tobacco Waste
- » Active Zinc Oxide from Zinc Ash, Secondary Zinc Waste & EAF Dust
- » Agricultural Warehouse with Cold Storage
- » Aluminium Extrusion Plant
- » Arabic Gum
- » Automated Vehicle Scrapping and Recycling Unit
- » Baker's Yeast
- » Beer Plant
- » Bentonite Processing
- » Bicycle Manufacturing
- » Biodegradable Plastic Bags from Corn Starch

- - » Calcium Bromide
 - » Catenary Wires and Conductors Used in Railway Electrification

 - » Cold Storage (Shrimp & Agricultural Products)
 - » Dairy Farming & Dairy Products (Milk, Butter, Ghee & Paneer)
 - » Dairy Farming & Dairy Products (Pasteurised Milk & Curd)
 - » Dairy Farming (500 Cows)
 - » Disposable Nitrile Gloves (Nitrile Examination Hand Gloves)
 - » Electric PCC Poles
 - » Extraction of Essential Oil from Black Pepper
 - » Flexographic Printing

- » Gold and Diamond Jewellery
- » Grapes Packing for Exports with 100 MT Cold Storage
- » Graphite Crucible
- » Hexamethoxymethyl Melamine Resin (HMMM)
- » Hot and Cold Fusion of Glass » I.V. Fluids (BFS Technology)
- » Industrial and Pharmaceutical Grade Starch from Cassava, Maize and Tacca Roots
- » IV Fluids (BFS Technology)
- » Lithium Ion Battery (Lifepo4) Business Plan
- » Low Carbon Ferro Manganese (Medium Grade)
- » Lucrative Business Plan for Calcium Sennosides from Senna Leaves Production
- » Maize Starch and Its By Products

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SELECTED BUSINESS IDEAS FOR RIGHT INVESTMENT

- » Manufacturing Business of Blood Bags
- » Gold and Diamond Jewellery
- » Needles for Sewing and Embroidery Machine
- » Oxygen Gas Plant (Medical Grade)
- » Pet Polyester Acoustic Panel
- » Phosphate Rich Organic Manure (PROM)
- » Ply Board from Poplar & Eucalyptus Wooden Logs
- » Precipitated Silica from Rice Husk Ash
- » Blood Collection Tubes (Vacutainer)
- » Latex & Nitrile Gloves
- » Soft Gelatin Capsules (Softgel Capsules)
- » Magnesium Sulphate
- » PVC/HDPE Pipes (Irrigation, Drinking Water, Agriculture and Sewerage)

- » Red Oxide Primer from Mill Scale
- » Roller Flour Mill with Packaging (Automatic Plant)
- » Saline and Dextrose Fluid (IV Fluid) BFS Technology
- » Sanitary Napkins
- » Sesame Seed Hulling Plant
- » Automated Vehicle Scrapping Unit
- » Auto Brake Pad and Auto Brake Shoe
- » Silicon Metal
- » Skill Development Centre
- » Sodium and Ammonium Molybdate
- » Sodium Hydrosulphite Manufacturing Business
- » Soft Gelatin Capsules

- » Solar Panel
- » Stable Bleaching Powder
- » Bamboo Fiber & Yarn
- » Active Pharmaceutical Ingredients
- Metformin Amoxicillin Ibuprofen
- Paracetamol
- » Printed Circuit Board (PCBS)
- » Mica Powder from Mica Deposits
- » Ready Mix Plaster, Block Jointer, Tile Adhesive and M 20 Concrete (Micro Concrete)
- > TMT Bars
- » Toughened Glass
- » Yeast from Molasses
- » Zinc Sulphate Monohydrate (Agriculture & Food Grade)



(npcs)

Start Investing in Fastest Growing Industries

Setup Biodegradable Disposable Cups and Plates (Tableware) Using Sugarcane Bagasse

agasse is the fibrous residue that remains after sugarcane or other vegetation is harvested for its juice or sap. It's usually dried, baled, and used as a renewable source of fuel or biomass energy. It is also gaining traction in the green movement as a material for sustainable, biodegradable products such as disposable plates, cups and cutlery. Bagasse is generally considered a waste product, but it is in fact an extremely versatile, renewable resource. It can be used in many different ways, including paper production, manufacturing of furniture, and packaging materials.

Advantages of Using Bagasse in Biodegradable Disposables

Bagasse is a lightweight material that is easy to transport, which makes it more economical than other materials like plastic or Styrofoam. Bagasse is also extremely durable. It can withstand temperatures of up to 220°F, meaning it can be used for hot and cold beverages and food without worrying about leakage or other problems. Plus, it won't break easily like plastic or Styrofoam. Bagasse is completely biodegradable, which means it won't contribute to landfills or other environmental problems associated with plastic waste.

Global Market Signal

The biodegradable tableware market is expected to be growing at a growth rate of 6.0% for the forecast period of 2022 to 2029. The global market for biodegradable disposable cups and plates made from sugarcane bagasse has seen significant growth. This is due to increased awareness of environmental sustainability and waste reduction among consumers

and the availability of various types of sugarcane bagasse tableware products in the market. The growing preference for eco-friendly alternatives is expected to drive the demand for biodegradable disposable cups and plates made from sugarcane bagasse over the forecast period. A growing trend of 'green' restaurants is also expected to contribute to an increase in demand for biodegradable disposable cups and plates made from sugarcane bagasse.

Conclusion

Entrepreneurs should consider entering the biodegradable disposable cups and plates (tableware) business using sugarcane bagasse due to its numerous benefits. Not only is it environmentally friendly, but there is a growing demand for this type of product and the cost of producing it is relatively low. The use of sugarcane bagasse is becoming increasingly popular among consumers as they seek more sustainable options. This means that there is a growing demand for this type of product, making it a great opportunity for entrepreneurs looking to get into the market.

PROJECT COST ESTIMATE

CAPACITY:

Biodegradable Disposable Cups : 665 Th.Pcs Per Day

each 9gm wt.

Biodegradable Disposable Plates : 375 Th.Pcs Per Day

each 16gm wt.

Plant & Machinery : ₹ 1941 Lakhs
Cost of Project : ₹ 2774 Lakhs
Rate of Return : 27%
Break Even Point : 46%

Steel Containers (Cargo Containers)

ontainerized shipping has changed the way that goods and materials are transported, but it can also take a while to learn how it all works. Cargo containers are the most efficient form of transportation when it comes to moving bulk loads over long distances. These sturdy metal boxes may look like something out of Star Wars, but they're actually an economical and environment-friendly way to ship goods across the globe, especially when compared to transporting by road or air freight services.

The cargo container industry produces a lot of intermodal containers each and every year. They are used to transport goods all over the world. About 180 million container loads crisscross the oceans each year in about 5000 container ships. International shipping of containerized commodities is indispensable for global trading firms to thrive in the increasingly competitive economic environment.

The global Shipping Containers Market was accounted for US\$ 10,350.1 Mn in terms of value and 306,324 Thousand Units in 2019 and is expected to grow at CAGR of 5.9% for the period 2020-2027. Increasing speed, reliability, and safety of containerization have compelled companies to opt for containers to ship their goods.

PROJECT COST ESTIMATE CAPACITY

Cargo Containers : 34 Nos Per Day

(Size 20 Feet)
Plant & Machinery : ₹ 3.21 Cr
Cost of Project : ₹ 18.13 C

Plant & Machinery : ₹ 3.21 Cr
Cost of Project : ₹ 18.13 Cr
Rate of Return : 28%
Break Even Point : 52%

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact:

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Lucrative Business Ideas for Startup

Introduction

Activated carbon, known for its incredible adsorption properties, is an indispensable material in industries like water purification, air filtration, food and beverage processing, pharmaceuticals, and gold recovery. One of the most sustainable sources for producing high-quality activated carbon is coconut shells. Given the abundance of coconut shells in tropical countries, especially in India, manufacturing activated carbon from this renewable resource presents an exceptional business opportunity for entrepreneurs and startups. Let's explore why venturing into this sector is highly promising, including market potential, growth trends, export opportunities, and a detailed look into the manufacturing process.

Why Startups Should Consider This Business

1. Abundance of Raw Materials: Coconut shells are a byproduct of the coconut industry, which is widely prevalent in regions like India, Sri Lanka, Indonesia, and the Philippines. Utilizing this

readily available waste product not only ensures cost-effective raw material sourcing but also promotes eco-friendly waste management. For startups, this means lower initial raw material costs and higher profit margins.

2. Growing Demand Activated Carbon: The global market for activated carbon is

expanding due to its increasing application in air and water purification. The growing awareness of environmental protection, coupled with stringent regulations on wastewater treatment, has spurred demand for activated carbon products. This trend is expected to continue, providing a

Activated Carbon from Coconut Shell

A Lucrative Business **Opportunity for Startups**

lucrative market for new entrants.

3. Export Potential: India is one of the largest producers of activated carbon, with significant export markets in the USA, Japan, and Europe. Activated carbon made from coconut shells is highly valued for its superior adsorption properties. This creates a strong export potential, making it an attractive option for startups looking to tap into the global market.

Market Size, Share, and Trends

PROJECT COST ESTIMATE

CAPACITY

Project Capacity : 6 MT Per Day

: ₹ 7.2 Crore

. 29%

: 57%

Plant & Machinery : ₹ 3.2 Crore

Cost of Project

Rate of Return

Break Even Point

The global activated carbon market was valued at approximately USD 5.3 billion in 2023 and is projected to grow at a CAGR of 8.7% from 2024 to 2030. The increasing demand for air and water treatment solutions in both developed and developing countries is a significant driver

of this growth. The Asia-Pacific region, especially India, is expected to witness robust growth, driven by rapid industrialization, urbanization, and increasing investments in water treatment facilities.

Activated carbon from coconut shells holds about 40% of the total market share in the activated carbon industry due to its high surface area, large

pore volume, and superior hardness. The product's ability to efficiently remove impurities and pollutants makes it highly sought after in water purification, air filters, and even medical applications.

Key Market Trends:

- · Increasing use of activated carbon in pharmaceutical and food processing industries.
- · Adoption of activated carbon in automotive applications to reduce vehicle emissions.
- Rising investments in the manufacturing of activated carbon for gold recovery in mining industries.

Market Analysis and Growth Opportunities

Activated carbon from coconut shells is increasingly being used in water treatment plants, especially in areas where groundwater is contaminated. With rising global concerns over clean drinking water, the demand for this product is set to surge. Additionally, activated carbon is widely used in industries like food processing, oil refining, and pharmaceuticals to remove contaminants and impurities.

The Indian government's emphasis on sustainability and clean technology further opens up opportunities for startups to explore this sector. There are also favorable policies and incentives for setting up small and medium enterprises (SMEs) focused on sustainable industries.

Export Opportunities

India's dominance in the activated carbon market is reinforced by its ability to produce highquality coconut shell-based activated carbon. Startups entering this sector have the potential to export their products to countries like the USA, Germany, South Korea, and Australia, where demand for activated carbon remains strong.

A Business Plan for Soda Ash **By Solvay Process**

oda ash, or sodium carbonate, is a white, powdery chemical commonly used in the production of glass, paper, soaps and detergents, and other industrial products. It can be produced in several ways, but the Solvay process is the most widely used method. The Solvay process begins with brine—salt water saturated with sodium chloride-which is heated until it evaporates, leaving behind concentrated sodium chloride. This concentrated brine is then mixed with ammonia and carbon dioxide, forming sodium bicarbonate.

Benefits of Starting Soda Ash Industry

The production of soda ash has numerous

benefits for industry. It is an essential ingredient in the manufacture of glass. soaps and detergents, and many other products. Soda ash also plays an important role in the production of aluminium, steel, and paper.

Indian Market Outlook

The Indian market for soda ash is growing rapidly, with the industry expected to expand by 10 % each

year. India has already established itself as the third-largest producer of soda ash in the world. This is due in part to the country's vast supply of raw materials, such as limestone and salt, as well as

the availability of relatively low-cost labour. Indian government policies have encouraged the development of large-scale soda ash producers, which in turn has resulted in lower prices for consumers. This, combined with rising demand from China, has contributed to the overall growth of the Indian soda ash industry.

Global Market Outlook

The global soda ash market size was

valued at USD 11000.00 million in 2021 and is anticipated to witness a compound annual growth rate (CAGR) of 6.2% from 2022 to 2030. Soda ash is utilized as a raw material in many different industries, including agriculture, the production of paper and pulp, soap and detergent, and glass.

The Solvay process is a cost-effective and efficient method for producing soda ash from brine. This process has been used for decades in the chemical industry and continues to be a reliable source for soda ash production.

PROJECT COST ESTIMATE

CAPACITY:

Soda Ash (Na2CO3) : 200,000 MT Per Annum Ammonium Chloride (NH4CI) : 200,000 MT Per Annum

Plant & Machinery : ₹ 1050 Cr. : ₹ 1265 Cr. **Cost of Project** Rate of Return : 14 % **Break Even Point**

Market Survey Cum Detailed Techno Economic Feasibility Report on all above Businesses are Available. Contact:

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Most Growing Industries to Start a New Business

Start Manufacturing Business of IV Fluid (BFS Technology)

V fluids, also known as intravenous fluids, are solutions that are administered directly into the veins through a tube or catheter. These fluids are commonly used in medical settings to maintain hydration, replenish electrolytes, deliver medications, and provide nutrition. IV fluids can be a life-saving treatment in many situations, such as severe dehydration, surgical procedures, and critical illnesses. They can also be used to help manage chronic conditions, like kidney disease or

cancer, or to support recovery after an injury or illness.

How Can Make a Lot of Money With a BFS Technology Business?

If you're considering starting a business in the BFS technology industry, you might be wondering how you can make a lot of money from it. The good news is that BFS technology is in high demand across a variety of industries, including pharmaceuticals, food and beverage, and cosmetic products. One way to make a lot of money with a BFS technology business is by tapping into the growing market for IV fluids.

Future of the IV Fluid Industry

The IV Fluid market is expected to continue to grow in the future as healthcare services are expanding globally. The increase in hospital admissions and surgical procedures are creating a greater need for IV fluids. Furthermore, the ongoing development of new and innovative products in the IV Fluid market is predicted to further increase the demand.

Global Market Outlook

The global intravenous solutions market size was valued at \$11,857.7 million in 2021, and is

projected to reach \$26,558.4 million by 2031, registering a CAGR of 8.3% from 2022 to 2031. The global market has been categorized into North America, Asia Pacific, Middle East & Africa, Latin America, and Europe. North America dominated the global market in 2021 and accounted for the maximum share of more than 40.7% of the overall revenue in the same year.

Conclusion

Starting a BFS technology business offers many opportunities to make a lot of money. With the growing market for IV fluids and the potential to expand your product offerings to other industries, the possibilities are endless. It's a wise investment for anyone looking to capitalize on the benefits of BFS technology and grow their business in the future.

PROJECT COST ESTIMATE

CAPACITY

IV Fluids (500 ml Size Pack) : 78,000 Packs Per Day

Plant & Machinery : ₹ 744 Lakhs
Cost of Project : ₹ 1263 Lakhs
Rate of Return : 27 %
Break Even Point : 51 %

afety shoes are a type of footwear that are designed to provide protection to the wearer's feet in hazardous or risky environments.

Unlike regular shoes, safety shoes are specifically engineered to minimize the risk of injuries caused by falling objects, electrical hazards, slippery surfaces, and other occupational hazards. They are equipped with features such as reinforced toe caps, puncture-resistant soles, and anti-slip technology to ensure the wearer's safety and reduce the

Benefits of Safety Shoes

chances of accidents or injuries.

- Toe Protection
- Impact Resistance
- Puncture Resistance
- Slip Resistance
- Electrical Hazard Protection
- Chemical Resistance
- Comfort and Support
- Durability
- Compliance with Regulations
- Reduced Risk of Foot Injuries

Global Market Prospects

The industrial safety footwear market is set to thrive at a steady CAGR of 7.4% during the forecast period. The market holds a share of US\$ 11.6 billion in 2023 while it is anticipated to cross a value of US\$ 23.6 billion by 2033. The

Safety Shoes
shoes are key factor that pulls the industry to

Start Production of

restoration of industrial spaces is the key factor that pulls the industry to a halt. The industry worker's rights are also likely to fuel the demand for industrial safety footwear. Furthermore, advanced insulation and protective layer technologies are leading in the market. The construction and agricultural industry operations are likely to flourish the demand for industrial safety footwear.

Conclusion

If you're looking for a rewarding and profitable venture, consider entering the safety shoe industry. With the increasing demand, innovative technologies, and endless possibilities for growth, the path to success is waiting for you. Lace up your boots and step into the world of safety shoes today!

PROJECT COST ESTIMATE

CAPACITY

Safety Shoes : 2,000 Pairs Per Day Plant & Machinery : ₹ 113 Lakhs
Cost of Project : ₹ 672 Lakhs
Rate of Return : 28%
Break Even Point : 63%

Moringa Oleifera (Drumstick) Powder

oringa Oleifera is the most widely cultivated species of the genus Moringa, which is the only genus in the family Moring aceae. English common names include: moringa, drumstick tree (from the appearance of the long, slender, triangular seed-pods), horseradish tree (from the taste of the roots, which resembles horseradish), ben oil tree, or benzoil tree (from the oil which is derived from the seeds).

Originated from India, moringa trees are now found in Ghana, the Philippines, Nigeria, Kenya, Rwanda, Niger, Mozambique, Cambodia and Haiti. Today, the moringa market globally is estimated at more than Rs

moringa market globally is estimated at more than Rs 27,000 crore, which is expected to cross Rs 47, 250 crore by 2020, growing at a rate of nine per cent per year.

The increasing awareness about the health advantages of moringa products will be one of the major factors that will have a positive impact on the global moringa products market during the forecast period. Over the years, moringa products such as moringa leaf powder have seen a growth in the sales in the global market. The rising health awareness in countries such as Europe and Americas have given rise to the increasing usage of moringa products by the consumers. This will drive the moringa products market future growth till 2022. As a whole any entrepreneur can venture in this project without risk and earn profit.

PROJECT COST ESTIMATE

Drumstick (Moringa Oleifere) Powder

: 400 Kgs / Day

Plant & Machinery
Cost of Project
Rate of Return

:₹ 31 Lakhs :₹71 Lakhs

Rate of Return : 29% Break Even Point : 71%

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